

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/594,855
Source: IFWP
Date Processed by STIC: 10/10/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,855

TIME: 15:18:36

Input Set : E:\SEQ486PC.APP

Output Set: N:\CRF4\10102006\J594855.raw

3 <110> APPLICANT: SEQUENOM, INC.

5 <120> TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF OSTEOARTHRITIS AND TREATMENTS

6 THEREOF

8 <130> FILE REFERENCE: SEQ-4086-PC

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/594,855

C--> 11 <141> CURRENT FILING DATE: 2006-09-29

13 <150> PRIOR APPLICATION NUMBER: 60/559,011

14 <151> PRIOR FILING DATE: 2004-04-01

16 <150> PRIOR APPLICATION NUMBER: 60/559,202

17 <151> PRIOR FILING DATE: 2004-04-01

19 <150> PRIOR APPLICATION NUMBER: 60/559,203

20 <151> PRIOR FILING DATE: 2004-04-01

22 <150> PRIOR APPLICATION NUMBER: 60/559,042

23 <151> PRIOR FILING DATE: 2004-04-01

25 <150> PRIOR APPLICATION NUMBER: 60/559,275

26 <151> PRIOR FILING DATE: 2004-04-01

28 <150> PRIOR APPLICATION NUMBER: 60/559,040

29 <151> PRIOR FILING DATE: 2004-04-01

31 <150> PRIOR APPLICATION NUMBER: 60/559,225

32 <151> PRIOR FILING DATE: 2004-04-01

34 <160> NUMBER OF SEQ ID NOS: 2481

36 <170> SOFTWARE: PatentIn version 3.3

38 <210> SEQ ID NO: 1

39 <211> LENGTH: 97050

40 <212> TYPE: DNA

41 <213> ORGANISM: Homo sapiens

43 <220> FEATURE:

44 <221> NAME/KEY: modified_base

45 <222> LOCATION: (21706)..(21706)

46 <223> OTHER INFORMATION: a, c, g, t, unknown or other

48 <220> FEATURE:

49 <221> NAME/KEY: modified_base

50 <222> LOCATION: (81696)..(81696)

51 <223> OTHER INFORMATION: a, c, g, t, unknown or other

53 <220> FEATURE:

54 <221> NAME/KEY: modified_base

55 <222> LOCATION: (90601)..(90601)

56 <223> OTHER INFORMATION: a, c, g, t, unknown or other

58 <400> SEQUENCE: 1

59 cccacacccc caacagctgc acagtctgga gcgaatatac acgcccacca cccacacacc 60

61 caagacccaa tacacttttt taaactttat ttttacttct atttatttat ttttaattat 120

63 tttttaaaaa tctaattaga gatgaggtct taggctgggc acagtggctc atgcctgtaa 180

65 cccagcact tcgggaggcc gaggcaggca gatcacgagg cgggaggatc acgaggtcag 240

see p. 6

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,855

TIME: 15:18:36

Input Set : E:\SEQ486PC.APP

Output Set: N:\CRF4\10102006\J594855.raw

67	gagttcraga	ccagcctggc	caatatgggtg	aaaccccatc	tctgctaaaa	atacaaaaat	300
69	gagctgggcg	cggtgggtgtg	cacctgtaat	ctcagctact	tgggaggctg	aggcagaatt	360
71	gtttgaactc	aggaggcgga	tgctgcagtg	agctgagatc	gtgccactgc	actccagtct	420
73	gggagacaga	gcgagactac	gtctcaaaac	aaacaaacaa	acaaacaaca	acaacaaaaa	480
75	cagagataag	gtcttggcat	gttgcccagg	ctggtctcaa	gtcctgggct	caaaggattc	540
77	tectgcctca	gcctcccaaa	gtgctaggat	tacaggcgtg	aaccactgca	cccaccctac	600
79	tttttttttt	tttttttttt	atacaggatc	tactctgtgc	acccgggctg	gagtgcagtg	660
81	gcaagatcac	tgctgactgt	acccttgacc	tcagggactc	aagtgatcct	cctgcctcag	720
83	cctcctgagt	agctgggact	acaggagagc	gccagcacac	ctgggtaatt	aagatttttt	780
85	ttgtagagac	agacgctatg	ttgccccagg	tgctctcgaa	ctcctggctt	caagtgatac	840
87	acccttggcc	tcctaaagtg	ctgggatcac	aggcatgagc	cactgcacct	agcctaatat	900
89	agttaatatc	cccgtaagg	ctgctcagag	ggcctgagag	gaacaaaggg	ctcagctctg	960
91	gagagctcca	cccccagcgc	caatctctct	aaatggcctc	tttcctctcc	atattccacc	1020
93	acaaggcttg	gagtccagct	tctgtgacc	ttaagtcacc	attccaaagc	cctgcgatct	1080
95	caccagaga	ccacaagtga	aataatatta	taatcctgag	aagtttagtg	gaccaagatg	1140
97	gcatgccatc	aagacgctga	gaaacaaaga	ggaagatggg	accagggggc	ccagaagacg	1200
99	ctggaacca	cagtattaaa	agctcagaga	ggctgggcac	agtggctcac	acctgtaatc	1260
101	ccagcacttt	gggaggccaa	ggtgggtgga	tcacttgagc	ccaggggttt	gagaacagcc	1320
103	tgggcaacat	ggcgaaaccc	agtcctctacc	aaaaaatata	caaaaattag	ccaggcatgg	1380
105	tgggtgcgtg	cttagtacca	gctacttggg	aggctgaggc	aggaggattg	actgaacctg	1440
107	agagcacacc	actgcactcc	agcctggatg	acagaaccag	acctgacctc	aaagagaaga	1500
109	aaaaaaaaaa	aaaaaaaaag	cccagagggg	agggayacct	caacagtttt	ccagcccctt	1560
111	ccacatcctt	cctaacctca	cttgatagtg	ttcaagtcct	accttaggca	aggcagaaat	1620
113	tataggacca	agccgcctaa	tggggaaatt	gagtcctcga	gagaagtaat	gcattattta	1680
115	agatcccctg	caggactatg	agtcaggggt	ccaagagccc	ttccaccgtg	tgccactcag	1740
117	agacacagag	taggaggggg	aagggggctg	ggtggcaggg	gacaaaagat	gcaggaggca	1800
119	agcagcagtg	actgaagagg	cagaggctga	catgaaagac	ccaggagcag	agaatctttc	1860
121	cttatcatct	ccagggggaca	ccactgggca	gggcttggcc	tccggaaaaa	ccctgcattc	1920
123	cctctgtggg	ttcatcaggg	caccactctc	ctactagctg	ggtttttttt	ttttgttttg	1980
125	ttttgttttt	gagacagagt	cttactctgt	cacctaggct	ggagtgcaat	ggcgtgatct	2040
127	cagctcactg	taacctccac	ctcccatgtt	caagcaatcc	tcctgtctca	gcctcccaag	2100
129	tagctgggat	tacaggcacc	tgccatcatg	cctggctaat	ttttgtatgt	ttgtagagac	2160
131	agggtttcgc	catgttggcc	aggctggctc	ccaactcctg	gcctcagggt	atctgcctgc	2220
133	ctcagcctcc	caaagtgtct	ggattacagg	catgagccac	cacaccctgc	ctgagctggg	2280
135	ttttaacagg	aagaggagaa	gagccaaaac	tcctcacata	gaatcacaca	gcacttgaca	2340
137	gtttccaacc	tcacatcac	tgaagtttag	agcagccgat	accayaaaag	atgatctccc	2400
139	catcccccta	cagttaccca	ctgtgcagag	ggagatccac	acttagagac	aggaagcgat	2460
141	ttccagaagt	ccatagcaac	tcagtcaccg	gaatctaggt	ttcctgacca	gggcatagca	2520
143	gaaagggtcc	attccttttc	ttgcttgtag	cttcacagaa	gcttcctgga	cagagccctg	2580
145	gggtccagga	gacctgttat	tcattcccgg	ctatgctgag	acttgcctgag	tgaccttggg	2640
147	gactccttct	agagaatata	agttccacga	gtgcaggaa	ttttgtctat	tagtccttga	2700
149	tgtatctcca	gccctagaac	agtgtttggc	ccatactatg	tgcccaaaaa	atatccatta	2760
151	aatgactgaa	tgttgctgtg	catgggtgtg	catgcctgta	atccagcac	tttgggaagc	2820
153	tgaggcagaa	ggattgctta	agcccaggag	ttagagacca	gcttgggaaa	catagtgaga	2880
155	ccgatctctg	taaaaatttt	taaaaataaa	aaatgagtga	atatctagat	agccaggatt	2940
157	agagaagtgt	cacagtcaga	aagcctgaag	cctaaagaag	accaaggaac	caggggcttt	3000
159	atcctcagat	acatgaaagc	ctgaaattct	gtccacaagt	atttatagag	ggcccgtaat	3060
161	gttcttggtg	ctgggctagg	aactccccag	attcagttaa	gaacaaagtc	attacctggc	3120
163	ctcagatgca	aggcaggggc	tgggggggtg	gagtggcagg	gaggcagcgt	gatcaataca	3180

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,855

TIME: 15:18:36

Input Set : E:\SEQ486PC.APP

Output Set: N:\CRF4\10102006\J594855.raw

165	aacacttttc	ttagcctgag	ctgccctgac	atggtctgac	ggctcacaag	gtggtgagt	3240
167	cagccgggct	gcagtgttca	aggagggcgc	cggctggccg	cccacctgtc	agaggctgcg	3300
169	ccagaaggat	gcggaagaag	agattttctgc	cttggtctgag	gtcacttccc	acccccagat	3360
171	tccctgcccc	cacaacctg	caattttctg	acgctgacga	ctcggatcct	attatttccc	3420
173	gattttcaag	gtcccatgat	gctgacagcc	ccaaatgcta	agtcgtcagt	ccgcccacgc	3480
175	cctggaccgc	aaagcaataa	aggcgaggtc	agcaagggtc	ctaccacca	ctgcctcgaa	3540
177	aggcctctgg	gggtggtcgg	cgcgccccctc	cccacctcgc	gggggcccgtg	tgggcgtcgc	3600
179	tcggtcgttg	gggtgccggg	gacgtcgtga	tgagaacggc	gtcccagaga	cggcggtgac	3660
181	agagccggga	cacgtgacag	tcacagggtc	acattctgcg	gtccacgagt	ttgggaccgg	3720
183	gctggtcacg	tgacgcggtg	ggggcaccat	ggggtgatgt	gagatgcggg	tgtctcggat	3780
185	tacgtacaaa	tgacgtattc	ctaccccctt	tggcaaccag	atttccgttg	gaagatgcaa	3840
187	cggttccggt	gacggtagca	agttctcgcg	tccaggcatc	tccgcttccg	ctcggggcgc	3900
189	aacaacttcc	gactccacct	tcccagcctc	gggcaaggaa	gagacgcgac	catgtgcgca	3960
191	tgccccgaat	ttatcacgga	ggggcggggc	tgaggctgcg	ggagctggag	cggggaagaa	4020
193	aagggaattc	caacctgtgg	aaccttgggg	ggtccccggg	gtcggcgcct	tccattgac	4080
195	tgtgggcggt	gcaaggacg	gagcctctgg	cggctcgtgg	gggtgttggg	gtccgcaggg	4140
197	ggaggaggag	gagtgtcaga	gtgtgagcgg	ggtacgggaa	ttccaaattt	gagggcctcc	4200
199	cggctctggc	gccggggagg	gagagctcag	gccgccatgc	gggacaggac	ccacgagctg	4260
201	agacaggtag	gacggcaggg	cagcggggat	ggggacgggc	ggacgaactg	gaacgcaggga	4320
203	cttctggtct	tcgggataag	gaggggtggc	tgatggccag	gaaggaaaagt	cccgggaagcc	4380
205	tgtgggtcct	gcggggtaa	agccgcagcg	aaacgggtgg	gccaatgact	ccgggcctgg	4440
207	cagggggatg	acagctcgga	cgaagaggac	aaggagcggg	tcgcgctgg	ggtgcacccg	4500
209	ggcacggcac	ggctggggag	cccggacgag	gagttcttcc	acaaggtaag	gggctgggg	4560
211	ctccgcctgg	attcgcgagg	gtgtaggagg	acccgaggag	tagcgtggtc	tggagtacc	4620
213	catatctctt	tcagccctct	cggtcaccct	ccccaggctc	ggacaattcg	gcagactatt	4680
215	gtcaaactgg	ggaataaagt	ccaggagtgg	gagaaacagc	aggtcaccat	cctggccacg	4740
217	ccccttccc	aggagagtga	gtgaaacccc	ggctgcaggg	cgcatgctcc	gccccaggga	4800
219	ttgtgggggt	tgtagttcca	cgcagggtgg	ggccagagtg	gtttgttgag	gtgggggctg	4860
221	ctgtttggga	gtcttggcct	tctcttattc	aggcatgaag	caggagctgc	agaacctgcg	4920
223	cgatgagatc	aaacagctgg	ggagggagat	ccgcctgcag	ctgaagggtg	agctcctggg	4980
225	acctcagaca	gatccttccc	tctgatcctg	ccctgttggt	ggtatatctg	gggagtgtgt	5040
227	ggcccagaga	agccagtgat	atatccagg	cacacagcag	gcctgggtct	agcatctgtc	5100
229	tccctggcctc	caggccattg	tactctccac	agcacaagtc	cgctctcag	gttcttttat	5160
231	ttacaatgaa	accatttact	tacacagtta	tcgctgcccc	ctgggcattc	tttgggcagg	5220
233	gagatggagt	tttgttaggt	ggcctctgca	tacctatggg	aactcagtga	tgtaatgcaa	5280
235	agaaaaataa	acttactttc	tcctcttaga	ggctcagcct	tagtcatttt	atgataaatt	5340
237	atatttccct	aaaaatccta	tggagacaag	tacccccaat	acccctgtgt	cttcccacag	5400
239	ccatagagcc	ccagaaggag	gaagctgatg	agaactataa	ctccgtcaac	acaagaatga	5460
241	gaaaaaccca	ggtgggtttt	ttttctcaga	aatgaggaca	tttcagcaaa	tgtttcatga	5520
243	agtattagat	gacagggtga	tgaagggaag	gcctgcagag	atcatggagt	ccaattggat	5580
245	gacttttcca	aatggggaaa	ctgagctcag	agagagaaa	aacttgctca	aggtcaggaa	5640
247	gccaggtctc	ctgatgctca	gtccggttat	aacaccctgc	tttattttct	tccattcaat	5700
249	aggaagtac	tgtgaccca	gacaagacct	agtcttggct	gtgggacaca	tgttttcttt	5760
251	tctttttttg	cctcagcctc	ctgaatagct	gggattacag	gcggacaccc	ccatgcccag	5820
253	ctaatttttg	tagtttttagt	agagactggg	cttcacccatg	ttggccaggc	tggtttcgaa	5880
255	ctcctgacct	cagggtgacc	tcctgcctcg	gcctcccaaa	gtgctgaatt	acaggcgtga	5940
257	gccaccatgc	ccagctggga	cacatgtttt	ctgggagtc	agatgaggag	ttagggttca	6000
259	ataggggata	aagacattac	tcacgtggga	cctggtggct	aacggcgtg	cccagggaag	6060
261	gagagtgaga	agtcataaat	gactggcagg	tttcttatct	atgtgacagg	gacatcctta	6120

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,855

TIME: 15:18:36

Input Set : E:\SEQ486PC.APP

Output Set: N:\CRF4\10102006\J594855.raw

263	gtccacacag	tgggaattcaa	gaagtcagga	agaggaaactt	ccttggggca	acactgaaga	6180
265	ggaactcccc	tggtgtgata	tcttattttt	ttaattatta	ttattttttt	gagatggagt	6240
267	ctcactctgt	ccctcaggct	ggagtacagt	ggcacaatct	tggtctactg	caacctccac	6300
269	ctccttcaag	cgattctcct	gcctcagcct	cacgagtagc	tgggattaca	ggtgtgcacc	6360
271	accacacctg	gctaattttt	tatatatttg	gtagaaatga	ggtttcacct	tgttgccag	6420
273	gctggtctcg	aactcctgay	ctcaactgat	ccacctgctt	tggcctcgca	aagtgtatg	6480
275	attataggca	tgagccaccg	cgcgcggccc	ctggggtgat	atcttagtaa	ggagatttgc	6540
277	agtgatctga	ctggccctct	ctgggtcccc	agtgaggagg	ataccaggag	gtcagggttg	6600
279	gagtagttgg	gcccagggct	cagcagggac	cccagattga	agatggagca	gcttgggcat	6660
281	cttggaaggg	tgaagctgga	accaggaaaag	cagatgtatc	tctggaaaag	gaactccaag	6720
283	gaatgagcat	atttaaggcc	tcagaagaag	gggcaaggca	gagcagatgc	cccagaacca	6780
285	gtgtttctgg	ggaagcctgt	ggtggtgatt	ggcatgagtg	gttgagggtc	catgtgggcc	6840
287	tgttgacact	gtttcgccca	ggcaacatgt	tcatctctag	gcgtaggagc	tgtggtgtag	6900
289	gcagcgaggt	tggcattcag	caagcattca	gcagttacat	attgggtgcc	tactgtgtgc	6960
291	cagacctttt	tggaaactgtt	taggatacag	cagtgaacca	gtgatccctg	tcctcatgga	7020
293	acttcccttc	tggtgtagac	aatcaccata	ataaataagt	gaattattta	gaacataata	7080
295	agcattaagg	aaaaaagagc	aggggaagag	ggactaagca	tgctggagga	ggtagagttg	7140
297	cagttgaaag	caggtggagg	aagcttcatt	cagaaggtaa	catctgaaca	agagacttaa	7200
299	aggtgtttgc	tgggaatgag	cattctagggt	agaaggaaaa	gtgaatgcaa	aggcttaagc	7260
301	tgagagtgtg	ctttgtctag	ggaggggttaa	ggagaccagt	gtggatgggc	agaggaaggg	7320
303	aacagtaaga	ggaagtaaga	tcagagaggt	catgggagaa	ggagagatca	tagagggcta	7380
305	gccaggcacc	gtggctcacg	cctgtaatcc	cagcactttg	gaggctgagg	tgggaggatt	7440
307	ggttgagccc	aggagtttga	gaccagcctg	ggcaatatag	tgagaccccc	cccccttttt	7500
309	tttttttctt	ttgagacagg	gtctcactct	gttgcccagg	ctggagtaca	gtggtgccat	7560
311	ctctgctcac	tgcaacctcc	gcctcctggg	ttcaagccat	tctcttgctt	cagcctccca	7620
313	agtagctggg	actacaggcg	cccaccactg	caccaagcta	atttctgtac	ttttagtaga	7680
315	gatggggttt	caccacgttg	gccaggctgg	tcttgacctc	ctgacctcag	gtgatccacc	7740
317	tgctcagcc	tcccaaagtg	ctgggatcac	aggcatgagc	caccgtgccc	ggccaacctt	7800
319	gtctctatta	aaaataaaaa	taggccaggt	gcagtggtct	acgcctgtaa	tggaggccga	7860
321	ggcaggtgga	tcacaaggct	aagagatcaa	gaccatcctg	gccaacatgg	tgaaccccca	7920
323	tctctactaa	aaatacaaaa	attagccgtg	cgtggtggcg	cgtgcctgta	gtcccagcta	7980
325	ctcgggaggc	tgaggcaaga	gaattgcttg	aaccggggag	gccaagggtg	cagtgaagccg	8040
327	agattgtgcc	actgcactcc	agcctgggca	acaagagtga	aactctgtct	caaaaaacaa	8100
329	ataataaata	aataaataaa	tataaataaa	aataaataaa	taaaaaagat	catggaggac	8160
331	cacataggcc	tgataagggc	tttggctttt	agtctaagag	aaatggggga	gcctgtcaag	8220
333	gtcatcacia	ggtgggttaag	gtggcgagatc	ccgcataaga	gctcatgcta	tttgtctact	8280
335	gtactatggg	gttgccgagg	caccgaccgg	gcagggatcc	tcccaggggc	actcagccta	8340
337	tattcttcat	ctttagcatg	gggtcctgtc	ccagcaattc	gtggagctca	tcaacaagtg	8400
339	caattcaatg	cagtccgaat	accgggagaa	gaacgtggag	cggattcgga	ggcagctgaa	8460
341	gatcagtgag	ttgtgcatgc	ccagcctggc	ccgcaggggc	aggtaatccc	aacccaaccc	8520
343	tgagcctggc	cttttccctc	acagccaatg	ctgggatggt	gtctgatgag	gagttggagc	8580
345	agatgctgga	cagtgggcaa	agcgaggtgt	ttgtgtccaa	tgtgagtggc	cacagccagc	8640
347	ccctctctgc	tgtgcctccc	atccctctgc	agtcctgtcc	gtttctcgac	ctcctgggct	8700
349	caggtgatcc	tcctgcctca	gcctcccagag	tagctgggac	tataggtgca	agccactgca	8760
351	ccccgcttgc	tgtggccctt	tctgattaag	ggcaccctga	ggcctctaag	ggaattaatt	8820
353	agcctgcctg	gagtcaccca	tcagattcca	ggctgagggg	tcccagaag	ctcaacagga	8880
355	gtttctgacc	tgtgtcggt	ctccctgtga	acagttgccc	cactcctgtc	cacccccag	8940
357	atcctgaagg	acacgcaggt	gactcgacag	gccttaaagt	agatctcggc	ccggcacagt	9000
359	gagatccagc	agcttgaacg	cagtattcgt	gagctgcacg	acatattcac	ttttctggct	9060

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,855

TIME: 15:18:36

Input Set : E:\SEQ486PC.APP

Output Set: N:\CRF4\10102006\J594855.raw

361	accgaagtgg	agatgcaggt	gggtgccccg	cgcagcccca	gacgtgagac	caggctcagt	9120
363	ccaaactgcc	agmctccgc	cayccttaga	ttctctccct	gaggcttttg	tgtcttccag	9180
365	gtttggccat	gccccagat	tgggtgcttat	tcctatcctt	agctgtaccc	cgagaatggc	9240
367	acctgcctct	gctgctacac	agatgcccac	tccttctgct	atagcaccct	gccccctctc	9300
369	caaaacttga	gcctgcccag	gtctggcccc	agccctcact	ccccctccac	taacagcatc	9360
371	cacccttata	cctctcagag	gtccagtcag	agttgcccta	gaggggctgc	ctcctaaca	9420
373	ctgtacaagg	ctgggggtggg	ggcggcgctt	ccctggccct	ggttgtgagt	wgagttgagc	9480
375	ttccagccct	gtcctggagg	agctggcctc	agtcagtcta	cagccaatgc	ccttttgcag	9540
377	ctgagactta	caggaaagag	atctcattca	gtaggagtac	tgagacctga	ggctgggtgg	9600
379	gccaggagga	ggcagggata	gggagggcct	tgcagcagct	gtagataggc	ctggaagaat	9660
381	gggtaaattc	agacagattt	gtgaaggcac	agttcaccat	ctgtgaaagg	tatgagccat	9720
383	ttgaggccct	tagctccaag	ctaccactgc	agatagaggt	tgtatgggat	aagtgagcag	9780
385	gggacaaggg	actacatgat	agaagggggc	tggaaagccat	ccccaggag	tctgaacttt	9840
387	tgtcagatca	agtcttgccc	ttgtctttgt	tagtgcaatt	tttttttct	gccaggaatg	9900
389	ttcttcagtc	atctgggggtg	gggtgggcaa	aggcatcctt	acctccctga	accaccccat	9960
391	cctctgagca	gggggagatg	atcaatcgga	ttgagaagaa	catcctgagc	tcagcggact	10020
393	acgtggaacg	tgggcaggag	cacgtcaaga	cggccctgga	gaaccagaag	aaggcgagga	10080
395	aggtgagcct	cccaggcccc	gccactgccc	caggcaccct	gtgtgacttc	cctgaccccc	10140
397	tcctctccca	cagaagaaaag	tcttgattgc	catctgtgtg	tccatcaccg	tcgtcctcct	10200
399	agcagtcatt	attggcgctca	cagtgggttg	ataatgtcgc	acattgttgg	tgagatgttg	10260
401	tgggctgccc	cctggcctgc	cccagccctg	gccccagccc	tcctcctcc	ctcagaccct	10320
403	gttctccctc	ctttccttac	aggcactagg	agcaccagga	acccaggggc	tggccttctc	10380
405	tcacagcagc	ctgggggggca	gggcagagcc	tccagtcgga	cccccttctc	acactggccc	10440
407	ctatgcagaa	gggcagacag	ttcttctggg	gttggcagct	gctcattcat	gatggcctcc	10500
409	tccttcaggc	ctcaatgcct	gggggaggcc	tgcactgtcc	tgattggccg	ggacacacgg	10560
411	ttttgtaaaa	aattaaaaaa	caaaaaaaga	gcataaaaag	ccctgtgcac	gtgtgttctc	10620
413	ggaagggctg	gcccgaaggct	tccgggcatc	caacctcctt	acctcctgga	cgtccccagg	10680
415	gccaggtctg	gccctggctg	ctcagggtcaa	actgccaggg	gtgctgtgcc	cacagcaggc	10740
417	tggttctgcc	tttctgcacc	cccataggaa	tgggtgggca	gggaggggta	acaccggcat	10800
419	ctagctcctg	gctcagtaact	gtccccggga	aaggaccact	gtgagtatct	gtcttgga	10860
421	tgatgaggct	gaccaggcca	ggctgggacg	cagggtgagat	gggggttttg	gtggcatcag	10920
423	tgggccttct	tgtggcccag	aggaagaggc	accatgaaaa	aatgccta	tgaggctgtc	10980
425	actttggatg	cagtggatag	ggatgggtctg	gtttcagcag	ggatgacatt	ggagtgggat	11040
427	gttaagctgg	ggaagagggt	gccagtcaga	aagcacagga	ggccggggccc	tgtgaccaac	11100
429	aaaagcatca	tctttttacat	aagcgtttag	gcagggtgtg	gtggctcgca	ccagtaatcc	11160
431	cagcactttg	ggaggcccag	gcaggaggat	ctcttgagcc	caggagcttg	agaccagcct	11220
433	aggcaggatg	gggcaacctc	ttctcttttag	agaataataa	ttttacaaat	tagccaggcg	11280
435	tgatggcaag	tgtctgtcgt	cccagctact	ccagaggctg	aggtgggagg	atcgcttgag	11340
437	cccaggagat	taaggctgca	gtgagccatg	gtcatccac	tgcactccat	cctgggtgac	11400
439	agagcgagac	cctgtctcaa	aaataatagc	aatcatcatc	agtagcagca	gcagcagcag	11460
441	cagcagcata	gagagccagt	gacctggat	cagtgcacct	ggttgctgag	ggttacctgg	11520
443	ctgaagcagg	tgggtggcagc	agaaaagcct	gacctctgat	ttcttccata	aggtacctga	11580
445	aatccaagcc	ctgactaaat	ttcttttttt	cttttttttt	gagacagagt	cttgttcttt	11640
447	tgcccaggct	ggagtgcagt	ggcactatct	cagctcactg	caagctccgt	ctcccagggt	11700
449	cacgccattc	tcctgcctca	gcctcccag	tagctgggac	tgcaggcacc	cgccaccaca	11760
451	ccgggcta	tttttgtatt	tttagtagag	acgggggttt	accgtgttag	gatgggtctg	11820
453	atctactgac	atcggtgatct	gccctcctcg	gcctcccaaa	gtgttgggat	tacaggcggtg	11880
455	agccaccgcc	taaatttcta	agggctccta	gtcctgatgc	ctaatttctg	gagtggacgt	11940
457	ggctcctg	ccccgacacc	tagagttttt	gtttgtttgt	ttgtttgttt	tgagacagag	12000

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/594,855

DATE: 10/10/2006
TIME: 15:18:37

Input Set : E:\SEQ486PC.APP
Output Set: N:\CRF4\10102006\J594855.raw

fyi
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 21706
Seq#:1; N Pos. 81696,90601
Seq#:2; N Pos. 88498
Seq#:3; N Pos. 83006,83296,83499,90531
Seq#:5; N Pos. 50616
Seq#:6; N Pos. 9378,10377,28561,30071
Seq#:6; N Pos. 70886,86387
Seq#:7; N Pos. 8915,50851
Seq#:7; N Pos. 74638,75952,84611,85020,97777
Seq#:30; N Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,855

TIME: 15:18:37

Input Set : E:\SEQ486PC.APP

Output Set: N:\CRF4\10102006\J594855.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:21660
M:341 Repeated in SeqNo=1
L:6255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:88440
L:9400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:82980
M:341 Repeated in SeqNo=3
L:14531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:50580
L:16412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:9360
M:341 Repeated in SeqNo=6
L:19678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:8880
M:341 Repeated in SeqNo=7
L:25301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0